



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 |                      |
| on <u>6-12-03</u>   | <u>Jean A. White</u> |
| Date  | Signature            |
| <u>Jean A. White</u>  |                      |
| Typed or printed name of person signing certificate   |                      |

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REVOCATION OF POWERS OF ATTORNEY  
AND APPOINTMENT OF NEW ATTORNEYS AND/OR AGENTS  
AND CHANGE OF CORRESPONDENCE ADDRESS

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Massachusetts Institute of Technology, a corporation duly organized under the laws of the Commonwealth of Massachusetts, together with The Penn State Research Foundation, a corporation organized and existing under the laws of the State of Pennsylvania, are the assignees of the entire right, title and interest in the patent applications/patents identified in Attachment A. Massachusetts Institute of Technology and The Penn State Research Foundation hereby appoints Carolyn S. Elmore, Registration No. 37,567 and Anne I. Craig, Registration Number 32,976, and/or agents associated with:

Elmore Craig, P.C.  
209 Main Street  
No. Chelmsford, Massachusetts 01863

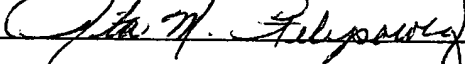
to prosecute the identified applications/patents and any divisions or continuations thereof and to conduct all business in the United States Patent and Trademark Office. All previously granted Powers of Attorney are hereby revoked.

Statements under 37 C.F.R. §3.73(b) with Attachment A are submitted herewith.

All correspondence should be sent to Elmore Craig, P.C., 209 Main Street, No.  
Chelmsford, Massachusetts 01863. Please direct all telephone calls to Carolyn S. Elmore, Esq.  
at (978) 273-3298.

Respectfully submitted,

Massachusetts Institute of Technology

By 

Title: Patent Administrator

Date May 23, 2003

The Penn State Research Foundation

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

ATTACHMENT A

|                   |   |  |
|-------------------|---|--|
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach,<br>Noah Lotan, Justin Hanes,<br>and Robert S. Langer | Atty. Docket No.: 2846.1001-000  |
| Application No.:  | 08/655,570  | Group: 1615  |
| Filed:            | May 24, 1996  | Examiner: R. Bawa  |
| Confirmation No.: | N/A   |  |
| Title:            | Porous Particles for Pulmonary Drug Delivery  |  |
| Patent No.:       | N/A   | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                                   |  |
| Recordation Date: | 1. July 26, 1996<br>2. March 5, 1998  | Reel: 1. 9013      Frames: 1. 0930-0934<br>2. 8875              2. 0876-0885 |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach,<br>Noah Lotan,<br>Justin Hanes,<br>Abdellaziz Ben-Jebria<br>and Robert S. Langer | Atty. Docket No.: 2846.1001-001                                    |
| Application No.:  | 09/194,068  | Group: 1619  |
| Filed:            | May 23, 1997<br>(Int'l Filing Date)<br>April 8, 1999<br>(371(c) Date)   | Examiner: R. Bawa  |
| Confirmation No.: | 2765  |  |
| Title:            | Aerodynamically Light Particles for Pulmonary Drug Delivery   |  |
| Patent No.:       | 6,503,480   | Granted: January 7, 2003   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation   |  |
| Recordation Date: | 1. April 8, 1999<br>2. April 8, 1999  | Reel: 1. 9923<br>2. 9925<br>Frames: 1. 0384-0392<br>2. 0098-0103   |
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Robert S. Langer and<br>Abdellaziz Ben-Jebria    | Atty. Docket No.: 2846.1001-007                                    |
| Application No.:  | 09/569,153  | Group: 1619  |
| Filed:            | May 11, 2000  | Examiner: R. Bawa  |
| Confirmation No.: | N/A   |  |
| Title:            | Porous Particles for Deep Lung Delivery (As Amended)  |  |
| Patent No.:       | 6,254,854   | Granted: July 3, 2001  |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology   |  |
| Recordation Date: | 1. October 30, 2000<br>2. July 26, 1996   | Reel: 1. 011211<br>2. 8875<br>Frames: 1. 0319-0321<br>2. 0876-0875 |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Robert S. Langer and<br>Abdellaziz Ben-Jebria | Atty. Docket No.: 2846.1001-008                                    |
| Application No.:  | 09/888,688   | Group: 1616  |
| Filed:            | June 25, 2001  | Examiner: R. Bawa  |
| Confirmation No.: | 2505   |  |
| Title:            | Porous Particles Comprising Excipients For Deep Lung Delivery (As Amended)   |  |
| Patent No.:       | 6,436,443B2  | Granted: August 20, 2002   |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology  |  |
| Recordation Date: | 1. October 30, 2000<br>2. July 26, 1996  | Reel: 1. 011211<br>2. 8875<br>Frames: 1. 0319-0321<br>2. 0876-0875 |
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Robert S. Langer and<br>Abdellaziz Ben-Jebria | Atty. Docket No.: 2846.1001-009                                    |
| Application No.:  | 09/891,131   | Group: 1616  |
| Filed:            | June 25, 2001  | Examiner: Mina Haghighatian  |
| Confirmation No.: | 2511   |  |
| Title:            | Spray Dried Porous Particles For Deep Lung Delivery (As Amended)   |  |
| Patent No.:       | 6,447,753  | Granted: September 10, 2002  |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology  |  |
| Recordation Date: | 1. October 30, 2000<br>2. July 26, 1996  | Reel: 1. 011211<br>2. 8875<br>Frames: 1. 0319-0321<br>2. 0876-0875 |

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|-------------------|---|--|
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Robert S. Langer, and<br>Abdellaziz Ben-Jebria | Atty. Docket No.: 2846.1001-010                                    |
| Application No.:  | 09/888,781  | Group: 1616  |
| Filed:            | June 25, 2001   | Examiner: Mina Haghighatian  |
| Confirmation No.: | 9010  |  |
| Title:            | Amorphous Porous Particles For Deep Lung Delivery (As Amended)  |  |
| Patent No.:       | 6,447,752   | Granted: September 10, 2002  |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology   |  |
| Recordation Date: | 1. October 30, 2000<br>2. July 26, 1996   | Reel: 1. 011211<br>2. 8875<br>Frames: 1. 0319-0321<br>2. 0876-0875 |
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellaziz Ben-Jebria<br>and Robert S. Langer  | Atty. Docket No.: 2846.1001-028                                    |
| Application No.:  | 10/090,418  | Group: 1617  |
| Filed:            | March 1, 2002   | Examiner: n/a  |
| Confirmation No.: | 8180  |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | N/A   | Granted: N/A   |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology   |  |
| Recordation Date: | 1. April 8, 1999<br>2. April 8, 1999  | Reel: 1. 9925<br>2. 9923<br>Frame(s): 1. 0098-0102<br>2. 0384-0392 |

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|-------------------|--|--|
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach,<br>Noah Lotan, Justin<br>Hanes, Robert S.<br>Langer, and Abdellaziz<br>Ben-Jebria | Atty. Docket No.: 2846.1001-031                                    |
| Application No.:  | 10/209,654   | Group: 1616  |
| Filed:            | July 30, 2002  | Examiner: Not assigned   |
| Confirmation No.: | 5830   |  |
| Title:            | Porous Particles Comprising Excipients For Deep Lung Delivery  |  |
| Patent No.:       | N/A  | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation  |  |
| Recordation Date: | 1. March 5, 1998<br>2. October 30, 2000  | Reel: 1. 9013<br>2. 011211<br>Frames: 1. 0930-0934<br>2. 0319-0321 |
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach,<br>Noah Lotan, Justin<br>Hanes, Abdellaziz<br>Ben-Jebria, and Robert<br>S. Langer | Atty. Docket No.: 2846.1002-000                                    |
| Application No.:  | 08/739,308   | Group: 1615  |
| Filed:            | October 29, 1996   | Examiner: Raj Bawa   |
| Confirmation No.: | N/A  |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery  |  |
| Patent No.:       | 5,874,064  | Granted: February 23, 1999   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation  |  |
| Recordation Date: | 1. January 17, 1997<br>2. January 17, 1997   | Reel: 1. 8388<br>2. 8388<br>Frames: 1. 0959-0965<br>2. 0917-0918   |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellaziz Ben-Jebria,<br>and Robert S. Langer | Atty. Docket No.: 2846.1002-001  |
| Application No.:  | 09/211,940  | Group: 1615  |
| Filed:            | December 15, 1998   | Examiner: S. Howard  |
| Confirmation No.: | N/A   |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | 6,136,295   | Granted: October 24, 2000  |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation   |  |
| Recordation Date: | 1. January 17, 1997<br>2. January 17, 1997  | Reel: 1. 8388      Frames: 1. 0959-0965<br>2. 8388              2. 0917-0918 |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellaziz Ben-Jebria,<br>and Robert s. Langer | Atty. Docket No.: 2846.1002-002  |
| Application No.:  | 09/562,988  | Group: 1615  |
| Filed:            | May 1, 2000   | Examiner: S. Howard  |
| Confirmation No.: | N/A   |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | 6,399,102   | Granted: June 4, 2002  |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology   |  |
| Recordation Date: | 1. August 29, 2000<br>2. August 29, 2000  | Reel: 1. 011098      Frames: 1. 0746-0749<br>2. 011098              2. 0720-0724 |



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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellaziz Ben-Jebria,<br>and Robert S. Langer | Atty. Docket No.: 2846.1002-003                                      |
| Application No.:  | 90/006,092  | Group: 1616  |
| Filed:            | August 22, 2001   | Examiner: Mina Haghighatian  |
| Confirmation No.: | 7468  |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | 5,874,064C1   | Certificate Issued: December 10, 2002                                |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation   |  |
| Recordation Date: | 1. January 17, 1997<br>2. January 17, 1997  | Reel: 1. 8388    Frames: 1. 0959-0965<br>2. 8388        2. 0917-0918 |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellaziz Ben-Jebria,<br>and Robert S. Langer | Atty. Docket No.: 2846.1002-004                                      |
| Application No.:  | 90/006,094  | Group: 1616  |
| Filed:            | August 22, 2001   | Examiner: Mina Haghighatian  |
| Confirmation No.: | 7466  |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | 6,136,295C1   | Granted: October 29, 2002  |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation   |  |
| Recordation Date: | 1. January 17, 1997<br>2. January 17, 1997  | Reel: 1. 8388    Frames: 1. 0959-0965<br>2. 8388        2. 0917-0918 |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellazai Ben-Jebria,<br>and Robert S. Langer | Atty. Docket No.: 2846.1002-005  |
| Application No.:  | 10/027,212  | Group: 1615  |
| Filed:            | December 20, 2001   | Examiner: Sharon Lee Howard  |
| Confirmation No.: | 1760  |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | N/A   | Granted: N/A   |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology   |  |
| Recordation Date: | 1. August 29, 2000<br>2. August 29, 2000  | Reel: 1. 011098    Frames: 1. 0746-0749<br>2. 011098        2. 0720-0724 |
| Applicants:       | Justin Hanes, David A.<br>Edwards, Carmen Evora,<br>and Robert L. Langer  | Atty. Docket No.: 2846.1003-000  |
| Application No.:  | 08/784,421  | Group: 1615  |
| Filed:            | January 16, 1997  | Examiner: G. Kishore   |
| Confirmation No.: | N/A   |  |
| Title:            | Particles Incorporating Surfactants For Pulmonary Drug Delivery   |  |
| Patent No.:       | 5,855,913   | Granted: January 5, 1999   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation   |  |
| Recordation Date: | 1. March 20, 1997<br>2. March 20, 1997  | Reel: 1. 8531    Frames: 1. 0042-0046<br>2. 8529        2. 0138-0140     |

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| Applicants:       | David A. Edwards,<br>Robert S. Langer, Rita<br>Vanbever, Jeffrey<br>Mintzes, Jue Wang, and<br>Donghao Chen | Atty. Docket No.: 2846.1003-006                                      |
| Application No.:  | 09/394,233   | Group: 1616  |
| Filed:            | September 13, 1999   | Examiner: Mina Haghighatian  |
| Confirmation No.: | 3922   |  |
| Title:            | Preparation of Novel Particles For Inhalation  |  |
| Patent No.:       | N/A  | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                          |  |
| Recordation Date: | 1. January 3, 2000<br>2. January 3, 2000   | Reel: 1. 010504<br>2. 010504<br>Frames: 1. 0362-0367<br>2. 0329-0333 |
| Applicants:       | Justin Hanes, David A.<br>Edwards, Carmen<br>Evora, and Robert S.<br>Langer                                | Atty. Docket No.: 2846.1003-007                                      |
| Application No.:  | 09/351,341   | Group: 1615  |
| Filed:            | July 12, 1999  | Examiner: G. Kishore   |
| Confirmation No.: | N/A  |  |
| Title:            | Particles Incorporating Surfactants For Pulmonary Drug Delivery  |  |
| Patent No.:       | RE37,053 E   | Granted: February 13, 2001   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                          |  |
| Recordation Date: | 1. March 20, 1997<br>2. March 20, 1997   | Reel: 1. 8531<br>2. 8529<br>Frames: 1. 0042-0046<br>2. 0138-0140     |

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| Applicants:       | David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen  | Atty. Docket No.: 2846.1003-008                                      |
| Application No.:  | 08/971,791   | Group: 1616  |
| Filed:            | November 17, 1997  | Examiner: K. Shelborne   |
| Confirmation No.: | N/A  |  |
| Title:            | Preparation of Particles For Inhalation  |  |
| Patent No.:       | 5,985,309  | Granted: November 16, 1999   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation              |  |
| Recordation Date: | 1. December 22, 1997<br>2. December 22, 1997   | Reel: 1. 9108<br>2. 9108<br>Frames: 1. 0667-0671<br>2. 0695-0702     |
| Applicants:       | David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen | Atty. Docket No.: 2846.1003-009                                      |
| Application No.:  | 09/752,106   | Group: 1616  |
| Filed:            | December 29, 2000  | Examiner: Mina Haghighatian  |
| Confirmation No.: | 8230   |  |
| Title:            | Particles For Inhalation Having Sustained Release Properties                                   |  |
| Patent No.:       | N/A  | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation              |  |
| Recordation Date: | 1. August 13, 2001<br>2. August 13, 2001   | Reel: 1. 012078<br>2. 012078<br>Frames: 1. 0137-0140<br>2. 0156-0164 |

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| Applicants:       | David A. Edwards,<br>Robert S. Langer, Rita<br>Vanbever, Jeffrey<br>Mintzes, Jue Wang, and<br>Donghao Chen    | Atty. Docket No.: 2846.1003-010  |
| Application No.:  | 09/909,145  | Group: 1619  |
| Filed:            | July 19, 2001   | Examiner: Not Assigned   |
| Confirmation No.: | 7807  |  |
| Title:            | Particles For Inhalation Having Sustained Release Properties  |  |
| Patent No.:       | N/A   | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                             |  |
| Recordation Date: | 1. January 3, 2000<br>2. January 3, 2000  | Reel: 1. 010504    Frames: 1. 0362-0367<br>2. 010504        2. 0329-0333 |
| Applicants:       | Rita Vanbever,<br>Jeffrey Mintzes,<br>Jue Wang,<br>Donghao Chen,<br>Robert S. Langer, and<br>David A. Edwards | Atty. Docket No.: 2846.1003-011  |
| Application No.:  | 60/059,004  | Group: N/A   |
| Filed:            | September 15, 1997  | Examiner: N/A  |
| Confirmation No.: | N/A   |  |
| Title:            | Preparation of Novel Particles for Inhalation   |  |
| Patent No.:       | N/A   | Granted: N/A   |
| Assignee:         | N/A   |  |
| Recordation Date: | N/A   | Reel: N/A        Frame(s): N/A   |

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|-------------------|--|--|
| Applicants:       | David A. Edwards,<br>Robert S. Langer, Rita<br>Vanbever, Jeffrey<br>Mintzes, Jue Wang, and<br>Donghao Chen | Atty. Docket No.: 2846.1003-012                                  |
| Application No.:  | 09/006,091   | Group: 1616  |
| Filed:            | July 12, 1999  | Examiner: Mina Haghighatian                                      |
| Confirmation No.: | 7469   |  |
| Title:            | Particles Incorporating Surfactants For Pulmonary Drug Delivery  |  |
| Patent No.:       | RE37,053   | Granted: February 13, 2001                                       |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                          |  |
| Recordation Date: | 1. March 20, 1997<br>2. March 20, 1997   | Reel: 1. 8531<br>2. 8529<br>Frames: 1. 0042-0046<br>2. 0138-0140 |
| Applicants:       | David A. Edwards, Robert<br>S. Langer, Rita Vanbever,<br>Jeffrey Mintzes, Jue<br>Wang, and Donghao Chen    | Atty. Docket No.: 2846.1003-013                                  |
| Application No.:  | 90/006,093   | Group: 1616  |
| Filed:            | August 22, 2001  | Examiner: Mina Haghighatian                                      |
| Confirmation No.: | 7467   |  |
| Title:            | Preparation Of Particles For Inhalation  |  |
| Patent No.:       | 5,985,309 C1   | Granted: December 31, 2002                                       |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                          |  |
| Recordation Date: | 1. December 22, 1997<br>2. December 22, 1997   | Reel: 1. 9108<br>2. 9108<br>Frames: 1. 0667-0671<br>2. 0695-0702 |

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| Applicants:       | Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen | Atty. Docket No.: 2846.1003-014                                      |
| Application No.:  | 10/094,955   | Group: 1616  |
| Filed:            | March 7, 2002  | Examiner: Mina Haghghatian   |
| Confirmation No.: | 7624   |  |
| Title:            | Particles For Inhalation Having Sustained Release Properties                                   |  |
| Patent No.:       | N/A  | Granted: N/A   |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology              |  |
| Recordation Date: | 1. November 7, 2002<br>2. November 7, 2002   | Reel: 1. 013470<br>2. 013468<br>Frames: 1. 0864-0867<br>2. 0360-0368 |
| Application No.:  | 10/420,071   | Group: Not assigned  |
| Filed:            | April 18, 2003   | Examiner: Not assigned   |
| Confirmation No.: | N/A  |  |
| Title:            | Particles for Inhalation Having Sustained Release Properties                                   |  |
| Patent No.:       | N/A  | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation              |  |
| Recordation Date: | 1. August 13, 2001<br>2. August 13, 2001   | Reel: 1. 012078<br>2. 012078<br>Frames: 1. 0156-0164<br>2. 0137-0140 |



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| <b>CERTIFICATE OF MAILING</b>   |                      |
| I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 |                      |
| on <u>6-12-03</u>   | <u>Jean A. White</u> |
| Date  | Signature            |
| <u>Jean A. White</u>  |                      |
| Typed or printed name of person signing certificate   |                      |

**REVOCATION OF POWERS OF ATTORNEY  
AND APPOINTMENT OF NEW ATTORNEYS AND/OR AGENTS  
AND CHANGE OF CORRESPONDENCE ADDRESS**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Massachusetts Institute of Technology, a corporation duly organized under the laws of the Commonwealth of Massachusetts, together with The Penn State Research Foundation, a corporation organized and existing under the laws of the State of Pennsylvania, are the assignees of the entire right, title and interest in the patent applications/patents identified in Attachment A. Massachusetts Institute of Technology and The Penn State Research Foundation hereby appoints Carolyn S. Elmore, Registration No. 37,567 and Anne I. Craig, Registration Number 32,976, and/or agents associated with:

Elmore Craig, P.C.  
209 Main Street  
No. Chelmsford, Massachusetts 01863

to prosecute the identified applications/patents and any divisions or continuations thereof and to conduct all business in the United States Patent and Trademark Office. All previously granted Powers of Attorney are hereby revoked.

Statements under 37 C.F.R. §3.73(b) with Attachment A are submitted herewith.



All correspondence should be sent to Elmore Craig, P.C., 209 Main Street, No.  
Chelmsford, Massachusetts 01863. Please direct all telephone calls to Carolyn S. Elmore, Esq.  
at (978) 273-3298.

Respectfully submitted,

Massachusetts Institute of Technology

By \_\_\_\_\_

Title: \_\_\_\_\_

Date \_\_\_\_\_

The Penn State Research Foundation

By: Ronald J. Huss  
Ronald J. Huss

Title: Director Intellectual Property Office

Date: June 6, 2003



STATEMENT UNDER 37 C.F.R. § 3.73(b)

The Penn State Research Foundation

(Name of Assignee)

a corporation

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is

- A. ☒ the assignee, together with Massachusetts Institute of Technology, of the entire right, title and interest in the patent application(s)/patents identified in the attached Attachment A; or
- B. ☐ an assignee together with [ ] of the entire right, title and interest in the patent application identified above.

The right, title and interest of the above-named assignee in the patent application identified above is established by virtue of:

- A. ☒ An assignment from the inventor(s) of the patent application(s)/patents identified in Attachment A. The assignment was recorded in the Patent and Trademark Office at the Reel(s) and Frame(s) indicated in Attachment A, or a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:

1. From: To:  
The document was recorded in the Patent and Trademark Office at  
Reel , Frame , or a copy thereof is attached.
2. From: To:  
The document was recorded in the Patent and Trademark Office at  
Reel , Frame , or a copy thereof is attached.
3. From: To:  
The document was recorded in the Patent and Trademark Office at  
Reel , Frame , or a copy thereof is attached.

- ☐ Additional documents in the chain of title are listed on a supplemental sheet.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: June 6, 2003

Name: Ronald J. Huss

Title: Director, Intellectual Property Office

Signature: Ronald J. Huss

ATTACHMENT A

|                   |   |                                 |                                      |
|-------------------|---|---------------------------------|--------------------------------------|
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach,<br>Noah Lotan, Justin Hanes,<br>and Robert S. Langer | Atty. Docket No.: 2846.1001-000 |                                      |
| Application No.:  | 08/655,570  | Group:                          | 1615                                 |
| Filed:            | May 24, 1996  | Examiner:                       | R. Bawa                              |
| Confirmation No.: | N/A   |                                 |                                      |
| Title:            | Porous Particles for Pulmonary Drug Delivery  |                                 |                                      |
| Patent No.:       | N/A   | Granted:                        | N/A                                  |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                                   |                                 |                                      |
| Recordation Date: | 1. July 26, 1996<br>2. March 5, 1998  | Reel: 1. 9013<br>2. 8875        | Frames: 1. 0930-0934<br>2. 0876-0885 |

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|-------------------|---|--|
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach,<br>Noah Lotan,<br>Justin Hanes,<br>Abdellaziz Ben-Jebria<br>and Robert S. Langer | Atty. Docket No.: 2846.1001-001  |
| Application No.:  | 09/194,068  | Group: 1619  |
| Filed:            | May 23, 1997<br>(Int'l Filing Date)<br>April 8, 1999<br>(371(c) Date)   | Examiner: R. Bawa  |
| Confirmation No.: | 2765  |  |
| Title:            | Aerodynamically Light Particles for Pulmonary Drug Delivery   |  |
| Patent No.:       | 6,503,480   | Granted: January 7, 2003   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation   |  |
| Recordation Date: | 1. April 8, 1999<br>2. April 8, 1999  | Reel: 1. 9923      Frames: 1. 0384-0392<br>2. 9925                      2. 0098-0103   |
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Robert S. Langer and<br>Abdellaziz Ben-Jebria    | Atty. Docket No.: 2846.1001-007  |
| Application No.:  | 09/569,153  | Group: 1619  |
| Filed:            | May 11, 2000  | Examiner: R. Bawa  |
| Confirmation No.: | N/A   |  |
| Title:            | Porous Particles for Deep Lung Delivery (As Amended)  |  |
| Patent No.:       | 6,254,854   | Granted: July 3, 2001  |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology   |  |
| Recordation Date: | 1. October 30, 2000<br>2. July 26, 1996   | Reel: 1. 011211      Frames: 1. 0319-0321<br>2. 8875                      2. 0876-0875 |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Robert S. Langer and<br>Abdellaziz Ben-Jebria | Atty. Docket No.: 2846.1001-008                                    |
| Application No.:  | 09/888,688   | Group: 1616  |
| Filed:            | June 25, 2001  | Examiner: R. Bawa  |
| Confirmation No.: | 2505   |  |
| Title:            | Porous Particles Comprising Excipients For Deep Lung Delivery (As Amended)   |  |
| Patent No.:       | 6,436,443B2  | Granted: August 20, 2002   |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology  |  |
| Recordation Date: | 1. October 30, 2000<br>2. July 26, 1996  | Reel: 1. 011211<br>2. 8875<br>Frames: 1. 0319-0321<br>2. 0876-0875 |
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Robert S. Langer and<br>Abdellaziz Ben-Jebria | Atty. Docket No.: 2846.1001-009                                    |
| Application No.:  | 09/891,131   | Group: 1616  |
| Filed:            | June 25, 2001  | Examiner: Mina Haghighatian  |
| Confirmation No.: | 2511   |  |
| Title:            | Spray Dried Porous Particles For Deep Lung Delivery (As Amended)   |  |
| Patent No.:       | 6,447,753  | Granted: September 10, 2002  |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology  |  |
| Recordation Date: | 1. October 30, 2000<br>2. July 26, 1996  | Reel: 1. 011211<br>2. 8875<br>Frames: 1. 0319-0321<br>2. 0876-0875 |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Robert S. Langer, and<br>Abdellaziz Ben-Jebria | Atty. Docket No.: 2846.1001-010                                    |
| Application No.:  | 09/888,781  | Group: 1616  |
| Filed:            | June 25, 2001   | Examiner: Mina Haghighatian  |
| Confirmation No.: | 9010  |  |
| Title:            | Amorphous Porous Particles For Deep Lung Delivery (As Amended)  |  |
| Patent No.:       | 6,447,752   | Granted: September 10, 2002  |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology   |  |
| Recordation Date: | 1. October 30, 2000<br>2. July 26, 1996   | Reel: 1. 011211<br>2. 8875<br>Frames: 1. 0319-0321<br>2. 0876-0875 |
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellaziz Ben-Jebria<br>and Robert S. Langer  | Atty. Docket No.: 2846.1001-028                                    |
| Application No.:  | 10/090,418  | Group: 1617  |
| Filed:            | March 1, 2002   | Examiner: n/a  |
| Confirmation No.: | 8180  |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | N/A   | Granted: N/A   |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology   |  |
| Recordation Date: | 1. April 8, 1999<br>2. April 8, 1999  | Reel: 1. 9925<br>2. 9923<br>Frame(s): 1. 0098-0102<br>2. 0384-0392 |

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|-------------------|--|--|
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach,<br>Noah Lotan, Justin<br>Hanes, Robert S.<br>Langer, and Abdellaziz<br>Ben-Jebria | Atty. Docket No.: 2846.1001-031                                    |
| Application No.:  | 10/209,654   | Group: 1616  |
| Filed:            | July 30, 2002  | Examiner: Not assigned   |
| Confirmation No.: | 5830   |  |
| Title:            | Porous Particles Comprising Excipients For Deep Lung Delivery  |  |
| Patent No.:       | N/A  | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation  |  |
| Recordation Date: | 1. March 5, 1998<br>2. October 30, 2000  | Reel: 1. 9013<br>2. 011211<br>Frames: 1. 0930-0934<br>2. 0319-0321 |
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach,<br>Noah Lotan, Justin<br>Hanes, Abdellaziz<br>Ben-Jebria, and Robert<br>S. Langer | Atty. Docket No.: 2846.1002-000                                    |
| Application No.:  | 08/739,308   | Group: 1615  |
| Filed:            | October 29, 1996   | Examiner: Raj Bawa   |
| Confirmation No.: | N/A  |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery  |  |
| Patent No.:       | 5,874,064  | Granted: February 23, 1999   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation  |  |
| Recordation Date: | 1. January 17, 1997<br>2. January 17, 1997   | Reel: 1. 8388<br>2. 8388<br>Frames: 1. 0959-0965<br>2. 0917-0918   |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellaziz Ben-Jebria,<br>and Robert S. Langer | Atty. Docket No.: 2846.1002-001                                      |
| Application No.:  | 09/211,940  | Group: 1615  |
| Filed:            | December 15, 1998   | Examiner: S. Howard  |
| Confirmation No.: | N/A   |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | 6,136,295   | Granted: October 24, 2000  |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation   |  |
| Recordation Date: | 1. January 17, 1997<br>2. January 17, 1997  | Reel: 1. 8388<br>2. 8388<br>Frames: 1. 0959-0965<br>2. 0917-0918     |
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellaziz Ben-Jebria,<br>and Robert s. Langer | Atty. Docket No.: 2846.1002-002                                      |
| Application No.:  | 09/562,988  | Group: 1615  |
| Filed:            | May 1, 2000   | Examiner: S. Howard  |
| Confirmation No.: | N/A   |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | 6,399,102   | Granted: June 4, 2002  |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology   |  |
| Recordation Date: | 1. August 29, 2000<br>2. August 29, 2000  | Reel: 1. 011098<br>2. 011098<br>Frames: 1. 0746-0749<br>2. 0720-0724 |



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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellaziz Ben-Jebria,<br>and Robert S. Langer | Atty. Docket No.: 2846.1002-003                                  |
| Application No.:  | 90/006,092  | Group: 1616  |
| Filed:            | August 22, 2001   | Examiner: Mina Haghighatian                                      |
| Confirmation No.: | 7468  |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | 5,874,064C1   | Certificate Issued: December 10, 2002                            |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation   |  |
| Recordation Date: | 1. January 17, 1997<br>2. January 17, 1997  | Reel: 1. 8388<br>2. 8388<br>Frames: 1. 0959-0965<br>2. 0917-0918 |
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellaziz Ben-Jebria,<br>and Robert S. Langer | Atty. Docket No.: 2846.1002-004                                  |
| Application No.:  | 90/006,094  | Group: 1616  |
| Filed:            | August 22, 2001   | Examiner: Mina Haghighatian                                      |
| Confirmation No.: | 7466  |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | 6,136,295C1   | Granted: October 29, 2002  |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation   |  |
| Recordation Date: | 1. January 17, 1997<br>2. January 17, 1997  | Reel: 1. 8388<br>2. 8388<br>Frames: 1. 0959-0965<br>2. 0917-0918 |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellazai Ben-Jebria,<br>and Robert S. Langer | Atty. Docket No.: 2846.1002-005                                      |
| Application No.:  | 10/027,212  | Group: 1615  |
| Filed:            | December 20, 2001   | Examiner: Sharon Lee Howard  |
| Confirmation No.: | 1760  |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | N/A   | Granted: N/A   |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology   |  |
| Recordation Date: | 1. August 29, 2000<br>2. August 29, 2000  | Reel: 1. 011098<br>2. 011098<br>Frames: 1. 0746-0749<br>2. 0720-0724 |
| Applicants:       | Justin Hanes, David A.<br>Edwards, Carmen Evora,<br>and Robert L. Langer  | Atty. Docket No.: 2846.1003-000                                      |
| Application No.:  | 08/784,421  | Group: 1615  |
| Filed:            | January 16, 1997  | Examiner: G. Kishore   |
| Confirmation No.: | N/A   |  |
| Title:            | Particles Incorporating Surfactants For Pulmonary Drug Delivery   |  |
| Patent No.:       | 5,855,913   | Granted: January 5, 1999   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation   |  |
| Recordation Date: | 1. March 20, 1997<br>2. March 20, 1997  | Reel: 1. 8531<br>2. 8529<br>Frames: 1. 0042-0046<br>2. 0138-0140     |

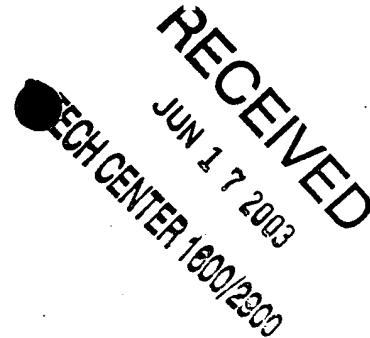
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| Applicants:       | David A. Edwards,<br>Robert S. Langer, Rita<br>Vanbever, Jeffrey<br>Mintzes, Jue Wang, and<br>Donghao Chen | Atty. Docket No.: 2846.1003-006                                      |
| Application No.:  | 09/394,233   | Group: 1616  |
| Filed:            | September 13, 1999   | Examiner: Mina Haghighatian  |
| Confirmation No.: | 3922   |  |
| Title:            | Preparation of Novel Particles For Inhalation  |  |
| Patent No.:       | N/A  | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                          |  |
| Recordation Date: | 1. January 3, 2000<br>2. January 3, 2000   | Reel: 1. 010504<br>2. 010504<br>Frames: 1. 0362-0367<br>2. 0329-0333 |
| Applicants:       | Justin Hanes, David A.<br>Edwards, Carmen<br>Evora, and Robert S.<br>Langer                                | Atty. Docket No.: 2846.1003-007                                      |
| Application No.:  | 09/351,341   | Group: 1615  |
| Filed:            | July 12, 1999  | Examiner: G. Kishore   |
| Confirmation No.: | N/A  |  |
| Title:            | Particles Incorporating Surfactants For Pulmonary Drug Delivery  |  |
| Patent No.:       | RE37,053 E   | Granted: February 13, 2001   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                          |  |
| Recordation Date: | 1. March 20, 1997<br>2. March 20, 1997   | Reel: 1. 8531<br>2. 8529<br>Frames: 1. 0042-0046<br>2. 0138-0140     |

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| Applicants:       | David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen  | Atty. Docket No.: 2846.1003-008                                      |
| Application No.:  | 08/971,791   | Group: 1616  |
| Filed:            | November 17, 1997  | Examiner: K. Shelborne   |
| Confirmation No.: | N/A  |  |
| Title:            | Preparation of Particles For Inhalation  |  |
| Patent No.:       | 5,985,309  | Granted: November 16, 1999   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation              |  |
| Recordation Date: | 1. December 22, 1997<br>2. December 22, 1997   | Reel: 1. 9108<br>2. 9108<br>Frames: 1. 0667-0671<br>2. 0695-0702     |
| Applicants:       | David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen | Atty. Docket No.: 2846.1003-009                                      |
| Application No.:  | 09/752,106   | Group: 1616  |
| Filed:            | December 29, 2000  | Examiner: Mina Haghighatian  |
| Confirmation No.: | 8230   |  |
| Title:            | Particles For Inhalation Having Sustained Release Properties                                   |  |
| Patent No.:       | N/A  | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation              |  |
| Recordation Date: | 1. August 13, 2001<br>2. August 13, 2001   | Reel: 1. 012078<br>2. 012078<br>Frames: 1. 0137-0140<br>2. 0156-0164 |

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|-------------------|---|--|
| Applicants:       | David A. Edwards,<br>Robert S. Langer, Rita<br>Vanbever, Jeffrey<br>Mintzes, Jue Wang, and<br>Donghao Chen    | Atty. Docket No.: 2846.1003-010                                      |
| Application No.:  | 09/909,145  | Group: 1619  |
| Filed:            | July 19, 2001   | Examiner: Not Assigned   |
| Confirmation No.: | 7807  |  |
| Title:            | Particles For Inhalation Having Sustained Release Properties  |  |
| Patent No.:       | N/A   | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                             |  |
| Recordation Date: | 1. January 3, 2000<br>2. January 3, 2000  | Reel: 1. 010504    Frames: 1. 0362-0367<br>2. 010504    2. 0329-0333 |
| Applicants:       | Rita Vanbever,<br>Jeffrey Mintzes,<br>Jue Wang,<br>Donghao Chen,<br>Robert S. Langer, and<br>David A. Edwards | Atty. Docket No.: 2846.1003-011                                      |
| Application No.:  | 60/059,004  | Group: N/A   |
| Filed:            | September 15, 1997  | Examiner: N/A  |
| Confirmation No.: | N/A   |  |
| Title:            | Preparation of Novel Particles for Inhalation   |  |
| Patent No.:       | N/A   | Granted: N/A   |
| Assignee:         | N/A   |  |
| Recordation Date: | N/A   | Reel: N/A    Frame(s): N/A   |

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|-------------------|--|--|
| Applicants:       | David A. Edwards,<br>Robert S. Langer, Rita<br>Vanbever, Jeffrey<br>Mintzes, Jue Wang, and<br>Donghao Chen | Atty. Docket No.: 2846.1003-012                                  |
| Application No.:  | 09/006,091   | Group: 1616  |
| Filed:            | July 12, 1999  | Examiner: Mina Haghighatian                                      |
| Confirmation No.: | 7469   |  |
| Title:            | Particles Incorporating Surfactants For Pulmonary Drug Delivery  |  |
| Patent No.:       | RE37,053   | Granted: February 13, 2001                                       |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                          |  |
| Recordation Date: | 1. March 20, 1997<br>2. March 20, 1997   | Reel: 1. 8531<br>2. 8529<br>Frames: 1. 0042-0046<br>2. 0138-0140 |
| Applicants:       | David A. Edwards, Robert<br>S. Langer, Rita Vanbever,<br>Jeffrey Mintzes, Jue<br>Wang, and Donghao Chen    | Atty. Docket No.: 2846.1003-013                                  |
| Application No.:  | 90/006,093   | Group: 1616  |
| Filed:            | August 22, 2001  | Examiner: Mina Haghighatian                                      |
| Confirmation No.: | 7467   |  |
| Title:            | Preparation Of Particles For Inhalation  |  |
| Patent No.:       | 5,985,309 C1   | Granted: December 31, 2002                                       |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                          |  |
| Recordation Date: | 1. December 22, 1997<br>2. December 22, 1997   | Reel: 1. 9108<br>2. 9108<br>Frames: 1. 0667-0671<br>2. 0695-0702 |

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| Applicants:       | Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen | Atty. Docket No.: 2846.1003-014                                      |
| Application No.:  | 10/094,955   | Group: 1616  |
| Filed:            | March 7, 2002  | Examiner: Mina Haghighatian  |
| Confirmation No.: | 7624   |  |
| Title:            | Particles For Inhalation Having Sustained Release Properties                                   |  |
| Patent No.:       | N/A  | Granted: N/A   |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology              |  |
| Recordation Date: | 1. November 7, 2002<br>2. November 7, 2002   | Reel: 1. 013470<br>2. 013468<br>Frames: 1. 0864-0867<br>2. 0360-0368 |
| Application No.:  | 10/420,071   | Group: Not assigned  |
| Filed:            | April 18, 2003   | Examiner: Not assigned   |
| Confirmation No.: | N/A  |  |
| Title:            | Particles for Inhalation Having Sustained Release Properties                                   |  |
| Patent No.:       | N/A  | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation              |  |
| Recordation Date: | 1. August 13, 2001<br>2. August 13, 2001   | Reel: 1. 012078<br>2. 012078<br>Frames: 1. 0156-0164<br>2. 0137-0140 |



STATEMENT UNDER 37 C.F.R. § 3.73(b)

Massachusetts Institute of Technology, a

(Name of Assignee)

corporation

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is

- A. ☒ the assignee, together with The Penn State Research Foundation, of the entire right, title and interest in the patent application(s)/patents identified in the attached Attachment A; or
- B. ☐ an assignee together with [ ] of the entire right, title and interest in the patent application identified above.

The right, title and interest of the above-named assignee in the patent application identified above is established by virtue of:

- A. ☒ An assignment from the inventor(s) of the patent application(s)/patents identified in Attachment A. The assignment was recorded in the Patent and Trademark Office at the Reel(s) and Frame(s) indicated in Attachment A, or a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:

1. From: To:  
The document was recorded in the Patent and Trademark Office at  
Reel , Frame , or a copy thereof is attached.
2. From: To:  
The document was recorded in the Patent and Trademark Office at  
Reel , Frame , or a copy thereof is attached.
3. From: To:  
The document was recorded in the Patent and Trademark Office at  
Reel , Frame , or a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Date: May 23, 2003

Name: Rita M. Filipowicz

Title: Patent Administrator

Signature: Rita M. Filipowicz



ATTACHMENT A

|                   |   |  |
|-------------------|---|--|
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach,<br>Noah Lotan, Justin Hanes,<br>and Robert S. Langer | Atty. Docket No.: 2846.1001-000  |
| Application No.:  | 08/655,570  | Group: 1615  |
| Filed:            | May 24, 1996  | Examiner: R. Bawa  |
| Confirmation No.: | N/A   |  |
| Title:            | Porous Particles for Pulmonary Drug Delivery  |  |
| Patent No.:       | N/A   | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                                   |  |
| Recordation Date: | 1. July 26, 1996<br>2. March 5, 1998  | Reel: 1. 9013      Frames: 1. 0930-0934<br>2. 8875              2. 0876-0885 |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach,<br>Noah Lotan,<br>Justin Hanes,<br>Abdellaziz Ben-Jebria<br>and Robert S. Langer | Atty. Docket No.: 2846.1001-001  |
| Application No.:  | 09/194,068  | Group: 1619  |
| Filed:            | May 23, 1997<br>(Int'l Filing Date)<br>April 8, 1999<br>(371(c) Date)   | Examiner: R. Bawa  |
| Confirmation No.: | 2765  |  |
| Title:            | Aerodynamically Light Particles for Pulmonary Drug Delivery   |  |
| Patent No.:       | 6,503,480   | Granted: January 7, 2003   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation   |  |
| Recordation Date: | 1. April 8, 1999<br>2. April 8, 1999  | Reel: 1. 9923      Frames: 1. 0384-0392<br>2. 9925              2. 0098-0103   |
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Robert S. Langer and<br>Abdellaziz Ben-Jebria    | Atty. Docket No.:2846.1001-007   |
| Application No.:  | 09/569,153  | Group: 1619  |
| Filed:            | May 11, 2000  | Examiner: R. Bawa  |
| Confirmation No.: | N/A   |  |
| Title:            | Porous Particles for Deep Lung Delivery (As Amended)  |  |
| Patent No.:       | 6,254,854   | Granted: July 3, 2001  |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology   |  |
| Recordation Date: | 1. October 30, 2000<br>2. July 26, 1996   | Reel: 1. 011211      Frames: 1. 0319-0321<br>2. 8875              2. 0876-0875 |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Robert S. Langer and<br>Abdellaziz Ben-Jebria | Atty. Docket No.: 2846.1001-008                                    |
| Application No.:  | 09/888,688   | Group: 1616  |
| Filed:            | June 25, 2001  | Examiner: R. Bawa  |
| Confirmation No.: | 2505   |  |
| Title:            | Porous Particles Comprising Excipients For Deep Lung Delivery (As Amended)   |  |
| Patent No.:       | 6,436,443B2  | Granted: August 20, 2002   |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology  |  |
| Recordation Date: | 1. October 30, 2000<br>2. July 26, 1996  | Reel: 1. 011211<br>2. 8875<br>Frames: 1. 0319-0321<br>2. 0876-0875 |
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Robert S. Langer and<br>Abdellaziz Ben-Jebria | Atty. Docket No.: 2846.1001-009                                    |
| Application No.:  | 09/891,131   | Group: 1616  |
| Filed:            | June 25, 2001  | Examiner: Mina Haghighatian  |
| Confirmation No.: | 2511   |  |
| Title:            | Spray Dried Porous Particles For Deep Lung Delivery (As Amended)   |  |
| Patent No.:       | 6,447,753  | Granted: September 10, 2002  |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology  |  |
| Recordation Date: | 1. October 30, 2000<br>2. July 26, 1996  | Reel: 1. 011211<br>2. 8875<br>Frames: 1. 0319-0321<br>2. 0876-0875 |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Robert S. Langer, and<br>Abdellaziz Ben-Jebria | Atty. Docket No.: 2846.1001-010                                    |
| Application No.:  | 09/888,781  | Group: 1616  |
| Filed:            | June 25, 2001   | Examiner: Mina Haghighatian  |
| Confirmation No.: | 9010  |  |
| Title:            | Amorphous Porous Particles For Deep Lung Delivery (As Amended)  |  |
| Patent No.:       | 6,447,752   | Granted: September 10, 2002  |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology   |  |
| Recordation Date: | 1. October 30, 2000<br>2. July 26, 1996   | Reel: 1. 011211<br>2. 8875<br>Frames: 1. 0319-0321<br>2. 0876-0875 |
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellaziz Ben-Jebria<br>and Robert S. Langer  | Atty. Docket No.: 2846.1001-028                                    |
| Application No.:  | 10/090,418  | Group: 1617  |
| Filed:            | March 1, 2002   | Examiner: n/a  |
| Confirmation No.: | 8180  |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | N/A   | Granted: N/A   |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology   |  |
| Recordation Date: | 1. April 8, 1999<br>2. April 8, 1999  | Reel: 1. 9925<br>2. 9923<br>Frame(s): 1. 0098-0102<br>2. 0384-0392 |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach,<br>Noah Lotan, Justin<br>Hanes, Robert S.<br>Langer, and Abdellaziz<br>Ben-Jebria | Atty. Docket No.: 2846.1001-031                                    |
| Application No.:  | 10/209,654   | Group: 1616  |
| Filed:            | July 30, 2002  | Examiner: Not assigned   |
| Confirmation No.: | 5830   |  |
| Title:            | Porous Particles Comprising Excipients For Deep Lung Delivery  |  |
| Patent No.:       | N/A  | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation  |  |
| Recordation Date: | 1. March 5, 1998<br>2. October 30, 2000  | Reel: 1. 9013<br>2. 011211<br>Frames: 1. 0930-0934<br>2. 0319-0321 |
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach,<br>Noah Lotan, Justin<br>Hanes, Abdellaziz<br>Ben-Jebria, and Robert<br>S. Langer | Atty. Docket No.: 2846.1002-000                                    |
| Application No.:  | 08/739,308   | Group: 1615  |
| Filed:            | October 29, 1996   | Examiner: Raj Bawa   |
| Confirmation No.: | N/A  |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery  |  |
| Patent No.:       | 5,874,064  | Granted: February 23, 1999   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation  |  |
| Recordation Date: | 1. January 17, 1997<br>2. January 17, 1997   | Reel: 1. 8388<br>2. 8388<br>Frames: 1. 0959-0965<br>2. 0917-0918   |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellaziz Ben-Jebria,<br>and Robert S. Langer | Atty. Docket No.: 2846.1002-001  |
| Application No.:  | 09/211,940  | Group: 1615  |
| Filed:            | December 15, 1998   | Examiner: S. Howard  |
| Confirmation No.: | N/A   |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | 6,136,295   | Granted: October 24, 2000  |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation   |  |
| Recordation Date: | 1. January 17, 1997<br>2. January 17, 1997  | Reel: 1. 8388      Frames: 1. 0959-0965<br>2. 8388                      2. 0917-0918     |
| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellaziz Ben-Jebria,<br>and Robert s. Langer | Atty. Docket No.: 2846.1002-002  |
| Application No.:  | 09/562,988  | Group: 1615  |
| Filed:            | May 1, 2000   | Examiner: S. Howard  |
| Confirmation No.: | N/A   |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | 6,399,102   | Granted: June 4, 2002  |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology   |  |
| Recordation Date: | 1. August 29, 2000<br>2. August 29, 2000  | Reel: 1. 011098      Frames: 1. 0746-0749<br>2. 011098                      2. 0720-0724 |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellaziz Ben-Jebria,<br>and Robert S. Langer | Atty. Docket No.: 2846.1002-003                                  |
| Application No.:  | 90/006,092  | Group: 1616  |
| Filed:            | August 22, 2001   | Examiner: Mina Haghighatian                                      |
| Confirmation No.: | 7468  |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | 5,874,064C1   | Certificate Issued: December 10, 2002                            |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation   |  |
| Recordation Date: | 1. January 17, 1997<br>2. January 17, 1997  | Reel: 1. 8388<br>2. 8388<br>Frames: 1. 0959-0965<br>2. 0917-0918 |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellaziz Ben-Jebria,<br>and Robert S. Langer | Atty. Docket No.: 2846.1002-004                                  |
| Application No.:  | 90/006,094  | Group: 1616  |
| Filed             | August 22, 2001   | Examiner: Mina Haghighatian                                      |
| Confirmation No.: | 7466  |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | 6,136,295C1   | Granted: October 29, 2002  |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation   |  |
| Recordation Date: | 1. January 17, 1997<br>2. January 17, 1997  | Reel: 1. 8388<br>2. 8388<br>Frames: 1. 0959-0965<br>2. 0917-0918 |

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| Applicants:       | David A. Edwards,<br>Giovanni Caponetti,<br>Jeffrey S. Hrkach, Noah<br>Lotan, Justin Hanes,<br>Abdellazai Ben-Jebria,<br>and Robert S. Langer | Atty. Docket No.: 2846.1002-005  |
| Application No.:  | 10/027,212  | Group: 1615  |
| Filed:            | December 20, 2001   | Examiner: Sharon Lee Howard  |
| Confirmation No.: | 1760  |  |
| Title:            | Aerodynamically Light Particles For Pulmonary Drug Delivery   |  |
| Patent No.:       | N/A   | Granted: N/A   |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology   |  |
| Recordation Date: | 1. August 29, 2000<br>2. August 29, 2000  | Reel: 1. 011098    Frames: 1. 0746-0749<br>2. 011098        2. 0720-0724 |
| Applicants:       | Justin Hanes, David A.<br>Edwards, Carmen Evora,<br>and Robert L. Langer  | Atty. Docket No.: 2846.1003-000  |
| Application No.:  | 08/784,421  | Group: 1615  |
| Filed:            | January 16, 1997  | Examiner: G. Kishore   |
| Confirmation No.: | N/A   |  |
| Title:            | Particles Incorporating Surfactants For Pulmonary Drug Delivery   |  |
| Patent No.:       | 5,855,913   | Granted: January 5, 1999   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation   |  |
| Recordation Date: | 1. March 20, 1997<br>2. March 20, 1997  | Reel: 1. 8531    Frames: 1. 0042-0046<br>2. 8529        2. 0138-0140     |



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| Applicants:       | David A. Edwards,<br>Robert S. Langer, Rita<br>Vanbever, Jeffrey<br>Mintzes, Jue Wang, and<br>Donghao Chen | Atty. Docket No.: 2846.1003-006                                      |
| Application No.:  | 09/394,233   | Group: 1616  |
| Filed:            | September 13, 1999   | Examiner: Mina Haghighatian  |
| Confirmation No.: | 3922   |  |
| Title:            | Preparation of Novel Particles For Inhalation  |  |
| Patent No.:       | N/A  | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                          |  |
| Recordation Date: | 1. January 3, 2000<br>2. January 3, 2000   | Reel: 1. 010504<br>2. 010504<br>Frames: 1. 0362-0367<br>2. 0329-0333 |
| Applicants:       | Justin Hanes, David A.<br>Edwards, Carmen<br>Evora, and Robert S.<br>Langer                                | Atty. Docket No.: 2846.1003-007                                      |
| Application No.:  | 09/351,341   | Group: 1615  |
| Filed:            | July 12, 1999  | Examiner: G. Kishore   |
| Confirmation No.: | N/A  |  |
| Title:            | Particles Incorporating Surfactants For Pulmonary Drug Delivery  |  |
| Patent No.:       | RE37,053 E   | Granted: February 13, 2001   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                          |  |
| Recordation Date: | 1. March 20, 1997<br>2. March 20, 1997   | Reel: 1. 8531<br>2. 8529<br>Frames: 1. 0042-0046<br>2. 0138-0140     |

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| Applicants:       | David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang and Donghao Chen  | Atty. Docket No.: 2846.1003-008                                      |
| Application No.:  | 08/971,791   | Group: 1616  |
| Filed:            | November 17, 1997  | Examiner: K. Shelborne   |
| Confirmation No.: | N/A  |  |
| Title:            | Preparation of Particles For Inhalation  |  |
| Patent No.:       | 5,985,309  | Granted: November 16, 1999   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation              |  |
| Recordation Date: | 1. December 22, 1997<br>2. December 22, 1997   | Reel: 1. 9108<br>2. 9108<br>Frames: 1. 0667-0671<br>2. 0695-0702     |
| Applicants:       | David A. Edwards, Robert S. Langer, Rita Vanbever, Jeffrey Mintzes, Jue Wang, and Donghao Chen | Atty. Docket No.: 2846.1003-009                                      |
| Application No.:  | 09/752,106   | Group: 1616  |
| Filed:            | December 29, 2000  | Examiner: Mina Haghighatian  |
| Confirmation No.: | 8230   |  |
| Title:            | Particles For Inhalation Having Sustained Release Properties                                   |  |
| Patent No.:       | N/A  | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation              |  |
| Recordation Date: | 1. August 13, 2001<br>2. August 13, 2001   | Reel: 1. 012078<br>2. 012078<br>Frames: 1. 0137-0140<br>2. 0156-0164 |

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| Applicants:       | David A. Edwards,<br>Robert S. Langer, Rita<br>Vanbever, Jeffrey<br>Mintzes, Jue Wang, and<br>Donghao Chen    | Atty. Docket No.: 2846.1003-010  |
| Application No.:  | 09/909,145  | Group: 1619  |
| Filed:            | July 19, 2001   | Examiner: Not Assigned   |
| Confirmation No.: | 7807  |  |
| Title:            | Particles For Inhalation Having Sustained Release Properties  |  |
| Patent No.:       | N/A   | Granted: N/A   |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                             |  |
| Recordation Date: | 1. January 3, 2000<br>2. January 3, 2000  | Reel: 1. 010504    Frames: 1. 0362-0367<br>2. 010504        2. 0329-0333 |
| Applicants:       | Rita Vanbever,<br>Jeffrey Mintzes,<br>Jue Wang,<br>Donghao Chen,<br>Robert S. Langer, and<br>David A. Edwards | Atty. Docket No.: 2846.1003-011  |
| Application No.:  | 60/059,004  | Group: N/A   |
| Filed:            | September 15, 1997  | Examiner: N/A  |
| Confirmation No.: | N/A   |  |
| Title:            | Preparation of Novel Particles for Inhalation   |  |
| Patent No.:       | N/A   | Granted: N/A   |
| Assignee:         | N/A   |  |
| Recordation Date: | N/A   | Reel: N/A        Frame(s): N/A   |

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| Applicants:       | David A. Edwards,<br>Robert S. Langer, Rita<br>Vanbever, Jeffrey<br>Mintzes, Jue Wang, and<br>Donghao Chen | Atty. Docket No.: 2846.1003-012                                  |
| Application No.:  | 09/006,091   | Group: 1616  |
| Filed:            | July 12, 1999  | Examiner: Mina Haghighatian                                      |
| Confirmation No.: | 7469   |  |
| Title:            | Particles Incorporating Surfactants For Pulmonary Drug Delivery  |  |
| Patent No.:       | RE37,053   | Granted: February 13, 2001                                       |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                          |  |
| Recordation Date: | 1. March 20, 1997<br>2. March 20, 1997   | Reel: 1. 8531<br>2. 8529<br>Frames: 1. 0042-0046<br>2. 0138-0140 |
| Applicants:       | David A. Edwards, Robert<br>S. Langer, Rita Vanbever,<br>Jeffrey Mintzes, Jue<br>Wang, and Donghao Chen    | Atty. Docket No.: 2846.1003-013                                  |
| Application No.:  | 90/006,093   | Group: 1616  |
| Filed:            | August 22, 2001  | Examiner: Mina Haghighatian                                      |
| Confirmation No.: | 7467   |  |
| Title:            | Preparation Of Particles For Inhalation  |  |
| Patent No.:       | 5,985,309 C1   | Granted: December 31, 2002                                       |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation                          |  |
| Recordation Date: | 1. December 22, 1997<br>2. December 22, 1997   | Reel: 1. 9108<br>2. 9108<br>Frames: 1. 0667-0671<br>2. 0695-0702 |

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| Applicants:       | Rita Vanbever, Robert S. Langer, David A. Edwards, Jeffrey Mintzes, Jue Wang, and Donghao Chen | Atty. Docket No.: 2846.1003-014      |
| Application No.:  | 10/094,955   | Group: 1616                          |
| Filed:            | March 7, 2002  | Examiner: Mina Haghighatian          |
| Confirmation No.: | 7624   |                                      |
| Title:            | Particles For Inhalation Having Sustained Release Properties                                   |                                      |
| Patent No.:       | N/A  | Granted: N/A                         |
| Assignee:         | 1. The Penn State Research Foundation<br>2. Massachusetts Institute of Technology              |                                      |
| Recordation Date: | 1. November 7, 2002<br>2. November 7, 2002   | Reel: 1. 013470<br>2. 013468         |
|                   |  | Frames: 1. 0864-0867<br>2. 0360-0368 |
| Application No.:  | 10/420,071   | Group: Not assigned                  |
| Filed:            | April 18, 2003   | Examiner: Not assigned               |
| Confirmation No.: | N/A  |                                      |
| Title:            | Particles for Inhalation Having Sustained Release Properties                                   |                                      |
| Patent No.:       | N/A  | Granted: N/A                         |
| Assignee:         | 1. Massachusetts Institute of Technology<br>2. The Penn State Research Foundation              |                                      |
| Recordation Date: | 1. August 13, 2001<br>2. August 13, 2001   | Reel: 1. 012078<br>2. 012078         |
|                   |  | Frames: 1. 0156-0164<br>2. 0137-0140 |